

Medication Delivery and Use in Home-Based Hospital Care

(Medication Delivery)

Date: 10/03/2026 - 10/10/2026

Client: Jennifer Woodard

Advisor: Randy Bartels

Team:

Aariel Moore - Team Leader, ajmoore4@wisc.edu

Sascha Jameson - BWIG, sjameson@wisc.edu

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Problem statement

Older adults and others with reduced grip strength, dexterity, or vision frequently cannot open blister-packaged medication, particularly peel-back foils. Existing aids either require substantial force, fail on peel-away packaging, or are too large, costly, or hazardous for personal use. As a result, patients drop pills, use sharp tools, or miss doses. A portable, low-force, low-cost tool is needed that safely opens both peel-back and push-through blister packaging without modifying the package or exposing sharp edges.

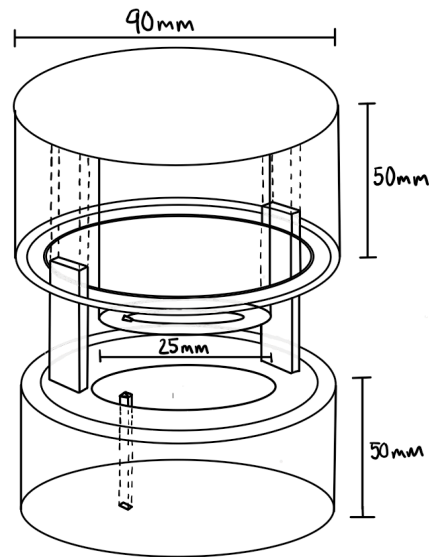
Brief status update

The team has met outside of class to discuss the preliminary designs and present them to a small group of classmates and advisors. Future client meetings to discuss progress have been scheduled to discuss these designs. We will begin using SolidWorks to bring our final preliminary design to life and create an initial prototype to test on various blister packaging.

Difficulties / advice requests

N/A

Current design



Materials and expenses

Item	Description	Manufacturer	Mft Pt#	Vendor	Vendor Cat#	Date	#	Cost Each	Total	Link
Category 1										
									\$0.00	
									\$0.00	
Category 2										
									\$0.00	
									\$0.00	
								TOTAL:	\$0.00	

Goals

Major team goals for the next week

1. Begin solidworks and prototyping
2. Test prototypes
3. Continue advancing design

Next week's individual goals

- Ariel Moore
 - Continue Research

- Finish solid working
 - Fix issues with design
- Alayna Allsop
 - Continue Research
 - Develop a SolidWorks assembly
- Caiden Krzmarzick
 - Test initial design
 - Continue constant communication with client and/or advisor
 - Research testing methods and materials for final product
- Sascha Jameson
 - Research materials for the prototype
 - Test preliminary prototype
 - Complete Feedback Fruits reflection
- Sila Olcay
 - Research materials & Complete the tables for the materials & expenses as CO-BPAG
 - Test printed design
 - Review the feedback received and improve in those specific areas
- Sarvesh Anandhaganesen
 - Obtain and test the printed design
 - Record observations and brainstorm ideas for improvement
 - Look into materials and expenses and fill out the expense table as CO-BPAG

Timeline

Task	Sept				Oct					Nov				Dec	
	4	10	17	24	1	8	15	22	29	5	12	19	26	3	10
Project R&D															
Empathize	X	X	X	X	X	X									
Background...		X	X												
Prototyping						X									
Testings															
Deliverables															
Progress Reports	X	X	X	X	X	X									
Prelim presentation					X										
Final Poster															
Meetings															
Client				X	X										
Advisor			X	X	X	X									
Website															
Update	X	X	X	X	X	X									

Filled boxes = projected timeline

X = task was worked on or completed

Detailed accomplishments

Previous week's goals and accomplishments

- Ariel Moore
 - Assigned preliminary report roles
 - Began solidworking
 - Did oral presentation
- Alayna Allsop
 - Completed fabrication and abstract of preliminary report
 - Began planning out dimensions and design plan for SolidWorks model
 - Delivered preliminary presentation
 - Met with client to share design plans
- Caiden Krzmarzick
 - Completed background of preliminary report
 - Presented the preliminary presentation to advisor and classmates
 - Completed machining lab training
- Sascha Jameson
 - Completed introduction/background research
 - Completed Introduction of preliminary report
 - Edited preliminary report
 - Completed and presented the preliminary presentation
- Sila Olcay
 - Completed and presented the preliminary presentation
 - Edited preliminary report
 - Completed more research entries
- Sarvesh Anandhaganesen
 - Completed and presenting the testing, and future works section of the preliminary presentation
 - Completed and edited the preliminary report which was submitted
 - Met with client to go over design plans and ideas

Activities

Name	Date	Activity	Time (h)	Week Total (h)	Sem. Total (h)
Aariel Moore	10/04/2026	Research, Preliminary Report, Feedback Fruits	4	4	17
Alayna Allsop	10/05/2026	Research, Preliminary Report, Feedback Fruits	4	4	17
Caiden Krzmarzick	10/06/2026	Research, Preliminary Report, Emails	3	3	16
Sarvesh Anandhagansen	10/05/2026	Research, Preliminary Report, Feedback Fruits	3	3	14
Sila Olcay	10/05/2026	Research, Preliminary Report, Feedback Fruits	4	4	12

BME Design: 200, 300, 301, 400 and 402

Sascha Jameson	10/05/2026	Research, Preliminary Report, Feedback Fruits	4	4	17
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